NUS CORPORATION
A Halliburton Company

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
EXECUTIVE SUMMARY

COMPLETED

Reichold-Varcum Chemical
Site Name

NYD002103216
EPA Site ID Number

5000 Packard Road
Niagara Falls, New York
Address New Jersey

02-8506-01
TDD Number

Date of Site Visit: June 13, 1985

SITE DESCRIPTION

Reichold-Varcum Chemical is located in an industrial area of the city of Niagara Falls, Niagara County, New York. The company employs 40 people and covers an area of approximately 9 acres. Various phenolic resins are manufactured on site. Process wastes are settled in two 30,000 gallon settling tanks. Waste water solutions are discharged into city sewers by state permit. Solid wastes are incinerated or recycled on site. Remaining solid wastes are drummed and transported off site. Previously, phenolic wastes were settled in an unlined pond. This pond was removed and the soil excavated to bedrock in 1979. Monitoring wells installed on site have revealed the presence of phenols and several other organic chemicals in the groundwater at Reichold-Varcum Chemical. The installation of additional monitoring wells in and around the site have been proposed by the New York Department of Environmental Conservation.

HAZARD RANKING SCORE: No score pending lab results.

Prepared by: Gary Rojek
of NUS Corporation

Date: 8/15/85

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Reichold-Varcum Chemical	5000 Packard Road				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST.**
Niagara Falls	NY	14304	Niagara	063	NY-36

09 COORDINATES
LATITUDE: 43° 06' 07". N
LONGITUDE: 79° 00' 12". W

10 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE _ B. FEDERAL _ C. STATE
_ D. COUNTY _ E. MUNICIPAL _ F. OTHER
_ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION: 6 / 13 / 85 (MONTH DAY YEAR)
02 SITE STATUS: X ACTIVE _ INACTIVE
03 YEARS OF OPERATION: 1930's (BEGINNING YEAR) / Present (ENDING YEAR) _ UNKNOWN

AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA X B. EPA CONTRACTOR NUS Corp. FIT II (Name of firm) _ C. MUNICIPAL _ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
_ E. STATE _ F. STATE CONTRACTOR _____ (Name of firm) _ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Gary Rojek	Environmental Scientist	NUS FIT II	(201) 225-6160
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO.**
Jay Crystall	Civil Engineer	NUS FIT II	(201) 225-6160
Luke Darragh	Environmental Scientist	NUS FIT II	(201) 225-6160
Joseph Mayo	Environmental Scientist	NUS FIT II	(201) 225-6160
Paul McNally	Biologist	NUS FIT II	(201) 225-6160
Mike Nicholas	Geologist	NUS FIT II	(201) 225-6160
13 SITE REPRESENTATIVES INTERVIEWED	**14 TITLE**	**15 ADDRESS**	**16 TELEPHONE NO.**
David Bright	Environmental Engineer	5000 Packard Road, Niagara Falls, New York	(716) 284-8855
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION _ WARRANT	0830 hours	Cloudy, 50°F, northwest winds 10-15 mph

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Diana Messina	U.S. EPA Region II	(201) 321-6776

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Gary Rojek		NUS Corp. FIT II	(201) 225-6160	8 / 15 / 85 (MONTH DAY YEAR)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- X A. SOLID
- _ B. POWDER, FINES
- X C. SLUDGE
- _ D. OTHER (Specify)
- _ E. SLURRY
- X F. LIQUID
- _ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS N/A
- CUBIC YARDS N/A
- NO. OF DRUMS N/A

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- X B. CORROSIVE
- _ C. RADIOACTIVE
- _ D. PERSISTENT
- X E. SOLUBLE
- _ F. INFECTIOUS
- X G. FLAMMABLE
- X H. IGNITABLE
- _ I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- X K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	60,000	gallons	Capacity of settlings tanks for phenolic resin waste. Prior to 1979 phenolic resins were settled out in an unlined lagoon. During 1979 the lagoon was excavated to bedrock and approximately 1,339 tons of soi was excavated and removed at that time.
OLW	OILY WASTE			
SOL	SOLVENTS			
PSO	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE O CONCENTRATIO
SLU	Phenol	108-95-2	Settling Tank	984.77	ppb
SOL	Benzene	71-43-2	Settling Tank	37.5	ppb
OCC	Dichlorobenzene	25321-22-6	Settling Tank	72.5	ppb
OCC	Ethyl Benzene	100-41-4	Settling Tank	1787	ppb
SOL	Toluene	108-88-3	Settling Tank	122.6	ppb
OCC	1,2,4 Trichlorobenzene	12002-48-1	Settling Tank	31.94	ppb
PSD	Aldrin	309-00-2	Settling Tank	0.69	ppb
MES	Beryllium	7440-41-7	Settling Tank	70	ppb

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBE
FDS			FDS		
FDS	Xylene	1330-20-7	FDS		
FDS	Cadmium	7440-43-9	FDS		
FDS	Nickel	7440-02-0	FDS		

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
Niagara County Health Department File
Niagara River Toxics Monitoring Report Reichold-Varcum Chemicals, Inc., Feb. 22-23, 1982, NYSDEC File
Hydrogeologic Investigation, Reichold Chemicals, Inc. Niagara Falls, NY, December, 1984, NYSDEC File

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 XA. GROUNDWATER CONTAMINATION — 02 X OBSERVED (DATE: 12/84) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

A hydrogeologic investigation conducted at Reichold Chemicals for the New York State Department of Environmental Conservation revealed levels of phenols, benzene, dichlorobenzene, ethyl benzene, toluene and 1,2,4 trichlorobenzene in monitoring wells o plant property. Groundwater in area is not potable.

01. X B. SURFACE WATER CONTAMINATION — 02 X OBSERVED (DATE: 11/14/84) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Results of sampling done by Recra Research Inc. for Reichold Chemicals revealed concentrations as high as 54 ppm of phenols from adjacent railroad property. This surface water is not perennial however.

01 X C. CONTAMINATION OF AIR — 02 X OBSERVED (DATE: 6/13/85) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40 — 04 NARRATIVE DESCRIPTION

OVA readings up to 100 ppm were observed near settling tank effluent discharge at time of FIT site inspection.

01. D. FIRE/EXPLOSIVE CONDITIONS — 02 OBSERVED (DATE:) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

No potential exists.

01. X E. DIRECT CONTACT — 02 OBSERVED (DATE:) — X POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40 — 04 NARRATIVE DESCRIPTION

Potential exists for workers to come in contact with contaminated process effluent since it discharges from settling tanks in an open drain. Plant property is fenced in from public.

01 X F. CONTAMINATION OF SOIL — 02 OBSERVED (DATE:) — X POTENTIAL — ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.26 (ACRES) — 04 NARRATIVE DESCRIPTION

Potential for soil contamination from spills at open drain from process tanks.

01. G. DRINKING WATER CONTAMINATION — 02 OBSERVED (DATE:) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

No potential exists. No water is used for drinking in plant area.

01 X H. WORKER EXPOSURE/INJURY — 02 OBSERVED (DATE:) — X POTENTIAL — ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

Potential for workers to be overcome by fumes near settling tank discharge point and for workers to come in contact with settling tank effluent. Area is not fenced off to workers.

01 X I. POPULATION EXPOSURE/INJURY — 02 OBSERVED (DATE:) — X POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown — 04 NARRATIVE DESCRIPTION

Potential exists for population exposure to fumes from settling tank process effluent, since fumes could be carried off site.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 X J. DAMAGE TO FLORA
02 _ OBSERVED (DATE: _____) POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists for damage to flora in area of Reichold-Varcum, vegetation is sparse in this industrial area. Potential for damage to flora exists from offsite migration of contaminated groundwater to discharge areas.

01 X K. DAMAGE TO FAUNA
02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

No potential exists.

01 X L. CONTAMINATION OF FOOD CHAIN
02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists.

01 X M. UNSTABLE CONTAINMENT OF WASTES
(Spills/runoff/standing liquids/leaking drums)
02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40
04 NARRATIVE DESCRIPTION

There is a potential for spills from open drainage culvert emanating from settling tanks. Groundwater is contaminated from probable previous unstable containment or waste in unlined settling pond.

01 X N. DAMAGE TO OFFSITE PROPERTY
02 X OBSERVED (DATE: 11/14/84) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Phenol was found in surface water on adjacent railroad property.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
02 X OBSERVED (DATE: 2/82) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Solvents, pesticides, organic chemicals and metals found in wastewater discharged by Reichold Chemicals to the Niagara Falls Wastewater Treatment Plant.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING
02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

None observed.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

A previous unlined settling pond, located in the area up the present settling tanks, was used to settle phenolic resin wastes this settling pond was removed and the soil excavated to bedrock in 1979.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 40

IV. COMMENTS

Reichold-Varcum Chemical employees are the people who are most directly exposed to hazardous conditions at the site. The plant is fenced in from the public and lies in an industrial area. Exposure to the public from air contamination is possible but offsite air contamination has not been documented.

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
Niagara County Health Department File
Niagara River Toxics Monitoring Report, Feb. 22-23, 1982, NYSDEC File

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
_ A. NPDES				No air permit is needed for
_ B. UIC				incineration process due to
_ C. AIR				small quantity of waste
_ D. RCRA				incinerated at any one time.
X E. RCRA INTERIM STATUS	Pending			Temporary pending class-
_ F. SPCC PLAN				ification of waste.
X G. STATE (Specify)	26	3/85	3/86	Discharge to Niagara Falls
_ H. LOCAL (Specify)				Wastewater Treatment Plant.
_ I. OTHER (Specify)				
_ J. NONE				

III. SITE DESCRIPTION

01 Storage/Disposal (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
_ A. SURFACE IMPOUNDMENT		
_ B. PILES		
_ C. DRUMS, ABOVE GROUND		
X D. TANK, ABOVE GROUND	60,000	gallons
_ E. TANK, BELOW GROUND		
_ F. LANDFILL		
_ G. LANDFARM		
_ H. OPEN DUMP		
_ I. OTHER (Specify)		

04 TREATMENT (Check all that apply)
- X A. INCINERATION
- _ B. UNDERGROUND INJECTION
- _ C. CHEMICAL/PHYSICAL
- _ D. BIOLOGICAL
- _ E. WASTE OIL PROCESSING
- X F. SOLVENT RECOVERY
- _ G. OTHER RECYCLING/RECOVERY
- X H. OTHER Settling Tank (Specify)

05 OTHER
- X A. BUILDINGS ON SITE

06 AREA OF SITE
9.3 (Acres)

07 COMMENTS

Reichold-Varcum Chemicals Division Manufacturers various phenolic resins. Prior to 1979 phenolic resin wastes were disposed of in an unlined settling pond. This pond was removed and 1,330 tons of soil excavated to bedrock. Presently wastes are stored in two 30,000 gallon settling tanks. Solids are incinerated or recycled and settling tank solutions are discharged to city sewers. Remaining solid wastes are transported offsite.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

_ A. ADEQUATE, SECURE X B. MODERATE _ C. INADEQUATE, POOR _ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Waste resins are processed in two settling tanks situated in a concrete lined dike. The solids are incinerated or recycled o site. Waste water is released to city sewers. Remaining solid wastes are drummed and stored on site until removal.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X YES _ NO

02 COMMENTS

Process waste water are discharged to city sewers in an open concrete lined drain. There are no barriers to prevent access t the drain.

VI SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
Niagara County Health Department File
Personal communication with David Bright of Reichold-Varcum Chemical (716) 284-8855, NYSDEC File

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 5 - DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A. X	B. _	A. _	B. _	C. X	A. 1.7 (mi)
NON-COMMUNITY	C. _	D. _	D. _	E. _	F. _	B. _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

_ A. ONLY SOURCE FOR DRINKING _ B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) _ C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) X D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER: 0 03 DISTANCE TO NEAREST DRINKING WATER WELL: N/A (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFE
3-8 (ft)	southwest	13-30 (ft)	10^6 (gpd)	_ YES X NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

At the time of site inspection a total of 14 monitoring wells were located on Reichold-Varcum property. Five of these wells were set in the overburden and the remainder were screened in the bedrock.

10 RECHARGE AREA	COMMENTS	11. DISCHARGE AREA	COMMENTS
_ YES X NO		_ YES X NO	

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION DRINKING WATER SOURCE _ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES _ C. COMMERCIAL, INDUSTRIAL _ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Gill Creek		0.9 (mi)
Niagara River		1.8 (mi)
		(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 1,884 NO. OF PERSONS	B. 35,349 NO. OF PERSONS	C. 80,321 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
13,916	0 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

The site is situated in an industrial section of Niagara Falls. A commercial business is located directly adjacent to Reichold-Varcum, and Packard Road and Niagara Junction Railway from the site's other borders.

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

A. 10^{-6} - 10^{-8} cm/sec _ B. 10^{-4} - 10^{-6} cm/sec X C. 10^{-4} - 10^{-3} cm/sec D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

X A. IMPERMEABLE (Less than 10^{-6} cm/sec) _ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) X C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) _ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

Permeability is influenced by degree of fracturing in rock at site and could range from impermeable to very permeable.

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH
6-12 (ft)	Unknown (ft)	Unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOP
16 (in)	2.5 (in)	0-2 %	northwest	0-2

09 FLOOD POTENTIAL

SITE IS IN 500 YEAR FLOODPLAIN _ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

10

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE	OTHER
A. N/A (mi)	B. 3.6 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A (mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AG LAND
A. 0 (mi)	B. 0.5 (mi)	C. 24 (mi)	D. 2.4 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Reichold-Varcum Chemical is located in an industrial section of the center of Niagara Falls, approximately 560 feet above mea sea level. The site comprises an area of approximately 9.3 acres of land with a slope of 0 to 2 percent to the west. The area is bordered by Packard Road and Niagara Junction Railway. Gill Creek and Hyde Part lie 0.9 miles to the west and the northern branch of the Niagara River is 1.8 miles to the south. The soil type in the area is Odessa, silty clay loam.

VII SOURCES OF INFORMATION (Cite specific references e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
Soil Survey of Niagara County, New York, U.S. Dept. of Agriculture, Soil Conservation Service, Oct. 1972
U.S.G.S. topographic maps (Niagara Falls, NY and Ransomville quads)
Groundwater in the Niagara Falls area, New York Conservation Dept. 1964
GEMS Graphical Exposure Modeling System

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0002103216

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	Organic Soil and Aqueous -	
SURFACE WATER	1	California Analytical Labs	
WASTE		2544 Industrial Blvd.	
AIR		West Sacramento, CA 95691	7/1/85
RUNOFF			
SPILL		Inorganic Soil and Aqueous -	
SOIL	3	Rocky Mountain Analytical Labs	
VEGETATION		5530 Marshall St.	
OTHER		Arvada, CO 80002	7/1/85

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA	Readings greater than 100 ppm at wells OW9, OW10, OW11, OW12, and OW16 and also at sampling location for SW1.
HNU	Same as above.

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND _ AERIAL 02 IN CUSTODY OF NUS Files
(Name of organization or individual)

03 MAPS 04 LOCATION OF MAPS

X YES
_ NO

Site location map and sample location map in Appendix A.

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Field log book

VI. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

Site Inspection 6/13/85

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002103216

II. CURRENT OWNER(S) / PARENT COMPANY (If applicable)

01 NAME	02 D + B Number	08 NAME	09 D + B NUMBER
Reichold Chemicals Inc.			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**11 SIC CODE**
5000 Packard Road	2821		

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
Niagara Falls	NY	14304			

01 NAME	02 D + B Number	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**11 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D + B Number	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**11 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

01 NAME	02 D + B Number	08 NAME	09 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**10 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**11 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first) / IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
Not Applicable		Not Applicable	
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**04 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**04 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	**04 SIC CODE**	**03 STREET ADDRESS (P.O. Box, RFD#, etc.)**	**04 SIC CODE**

05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
NYSDEC File

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. CURRENT OPERATOR(S) — OPERATOR'S PARENT COMPANY (If applicable)

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
Same as owner			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY 06 STATE	07 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER		

III. PREVIOUS OPERATOR(S) (List most recent first: Provide only if different from owner) — PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY 06 STATE	07 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY 06 STATE	07 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		
01 NAME	02 D + B Number	10 NAME	11 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD#, etc.)	13 SIC CODE
05 CITY 06 STATE	07 ZIP CODE	14 CITY 15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD		

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
NYSDEC File

DRAFT

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. ON-SITE GENERATOR

01 NAME	02 D + B Number
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
Modern Disposal			
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
4740 Model City Road	4212		
05 CITY 06 STATE	07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
Model City NY			
01 NAME	02 D + B Number	01 NAME	02 D + B NUMBER
03 STREET ADDRESS (P.O. Box, RFD#, etc.)	04 SIC CODE	02 STREET ADDRESS (P.O. Box, RFD, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., stat files, sample analysis, reports)

Personal communication with David Bright of Reichold-Varcum Chemical (716) 284-8855

DRAFT

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. PAST RESPONSE ACTIVITIES

01 ___ R. BARRIER WALLS CONSTRUCTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ S. CAPPING/COVERING — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ T. BULK TANKAGE REPAIRED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ U. GROUT CURTAIN CONSTRUCTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ V. BOTTOM SEALED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ W. GAS CONTROL — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ X. FIRE CONTROL — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ Y. LEACHATE TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ Z. AREA EVACUATED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ 1. ACCESS TO SITE RESTRICTED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ 2. POPULATION RELOCATED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 X 3. OTHER REMEDIAL ACTIVITIES — 02 DATE: 6/79-present — 03 AGENCY: DEC
04 DESCRIPTION

Monitoring wells have been installed in and around the site, and installation of additional monitoring wells both on and off Reichold-Varcum property is proposed.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Site Inspection 6/13/85
Niagara County Health Department File
NYSDEC Files

DRAFT

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0002103216

II. PAST RESPONSE ACTIVITIES

01 ___ A. WATER SUPPLY CLOSED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ D. SPILLED MATERIAL REMOVED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 X E. CONTAMINATED SOIL REMOVED — 02 DATE: 6/79 — 03 AGENCY: DEC
04 DESCRIPTION
Soil in a former settling pond was excavated to bedrock. 3×10^6 lbs. were removed.

01 ___ F. WASTE REPACKAGED — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ G. WASTE DISPOSED ELSEWHERE — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No history of waste disposed elsewhere when settling pond was used. Presently solid wastes are either drummed and removed or incinerated and liquid wastes are released to city sewage treatment plant.

01 ___ H. ON SITE BURIAL — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ I. IN SITU CHEMICAL TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ K. IN SITU PHYSICAL TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ L. ENCAPSULATION — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ M. EMERGENCY WASTE TREATMENT — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ N. CUTOFF WALLS — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ P. CUTOFF TRENCHES/SUMP — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

01 ___ Q. SUBSURFACE CUTOFF WALL — 02 DATE: ___ — 03 AGENCY: ___
04 DESCRIPTION
No previous history.

DRAFT

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART II - ENFORCEMENT INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 0002103216

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES _ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Prior to 1979 Reichold-Varcum Chemical was depositing phenolic resin wastes in a settling pond onsite. Through New Yo Department of Environmental Conservation action in June 1979, the pond was removed and soil excavated to bedroc Contaminated materials removed were disposed of in a secure landfill offsite. The excavated area was filled with clay a surfaced with gravel. Monitoring wells were installed at and around the site area. Results showed phenols in the groundwat of the area as high as 19 ppm.

Presently waste resins are processed in two settling tanks. Solids are incinerated or recycled and phenolic brine solutio are released into the city sewers to be treated at the municipal sewage treatment plant. Additional monitoring wells a being installed to further define the goroundwater contamination problem. The New York State DEC is studying addition remedial measures such as decommissioning the settling tanks and removal of contaminated soil.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, report)

Site Inspection 6/13/85
Niagara County Health Department File
NYSDEC Files

NUS CORPORATION
A Halliburton Company

COMPLETED

02-8506-01-PA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
EXECUTIVE SUMMARY

FILE COPY

Reichold-Varcum Chemical
Site Name

NYD002103216
EPA Site ID Number

5000 Packard Road
Niagara Falls, New York
Address New Jersey

02-8506-01
TDD Number

Date of Site Visit: June 13, 1985

SITE DESCRIPTION

Reichold-Varcum Chemical is located in an industrial area of the city of Niagara Falls, Niagara County, New York. The company employs 40 people and covers an area of approximately 9 acres. Various phenolic resins are manufactured on site. Process wastes are settled in two 30,000 gallon settling tanks. Waste water solutions are discharged into city sewers by state permit. Solid wastes are incinerated or recycled on site. Remaining solid wastes are drummed and transported off site. Previously, phenolic wastes were settled in an unlined pond. This pond was removed and the soil excavated to bedrock in 1979. Monitoring wells installed on site have revealed the presence of phenols and several other organic chemicals in the groundwater at Reichold-Varcum Chemical. The installation of additional monitoring wells in and around the site have been proposed by the New York Department of Environmental Conservation.

PRIORITY FOR FURTHER ACTION: High X Medium ___ Low ___

RECOMMENDATIONS

A site investigation and HRS scoring model has been prepared concurrently with this preliminary assessment.

Prepared by: Gary Rojek
of NUS Corporation

Date: 8/15/85

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

1. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Reichhold-Varcum Chemical	5000 Packard Road			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST.
Niagara Falls	NY	14304	Niagara	063	NY-36

09 COORDINATES

LATITUDE	LONGITUDE
43° 06' 07".N	79° 00' 12".W

10 DIRECTIONS TO SITE (Starting from nearest public road)

Route 190 north to Packard Road exit. Take Packard Road south to 5000 Packard Road. The site is on the right side of Packard Road.

III. RESPONSIBLE PARTIES

01 OWNER (if known)	02 STREET (Business, mailing, residential)		
Reichold Chemicals Inc.	5000 Packard Road		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Niagara Falls	NY	14304	(716) 284-8855
07 OPERATOR (if known and different from owner)	08 STREET (Business, mailing, residential)		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

13 TYPE OF OWNERSHIP (Check one)
X A. PRIVATE ___ B. FEDERAL: _____ (Agency name) ___ C. STATE ___ D. COUNTY ___ E. MUNICIPAL
___ F. OTHER: _____ (Specify) ___ G. UNKNOWN

14. OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
___ A. RCRA 3001 DATE RECEIVED: / / ___ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / /
X C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
X YES DATE: 6 / 13 / 85 ___ A. EPA X B. EPA CONTRACTOR ___ C. STATE ___ D. OTHER CONTRACTOR
___ NO ___ E. LOCAL HEALTH OFFICIAL ___ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): NUS Corp.

02 SITE STATUS (Check one) 03 YEARS OF OPERATION
X A. ACTIVE ___ B. INACTIVE ___ C. UNKNOWN 1930s (BEGINNING) Present (ENDING) ___ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Phenolic Resins, Phenol, Benzene, Dichlorobenzene, Ethylbenzene, Toluene, and 1,2,4-Trichlorobenzene.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Observed contamination of groundwater and air.

IV. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

X A. HIGH (Inspection required promptly) ___ B. MEDIUM (Inspection required) ___ C. LOW (Inspection on time available basis) ___ D. NONE (No further action needed. complete current disposition form)

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Diana Messina	U.S. EPA Region II	(201) 321-6685

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Gary Rojek		NUS Corp. FIT II	(201) 225-6160	8 / 15 / 85 (MONTH DAY YEAR)

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY D002103216

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- _ A. SOLID
- _ B. POWDER, FINES
- X C. SLUDGE
- X E. SLURRY
- X F. LIQUID
- _ G. GAS
- _ D. OTHER (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS	N/A
CUBIC YARDS	N/A
NO. OF DRUMS	N/A

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- X B. CORROSIVE
- _ C. RADIOACTIVE
- _ D. PERSISTENT
- X E. SOLUBLE
- _ F. INFECTIOUS
- X G. FLAMMABLE
- X H. IGNITABLE
- _ I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- X K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	60,000	gallons	Capacity of settling tanks for
OLW	OILY WASTE			phenolic resin waste. Prior to
SOL	SOLVENTS			1979 phenolic resins were
PSD	PESTICIDES			settled out in an unlined
OCC	OTHER ORGANIC CHEMICALS			lagoon. During 1979 the lagoon
IOC	INORGANIC CHEMICALS			was excavated to bedrock and
ACD	ACIDS			approximately 1,500 tons of soil
BAS	BASES			were excavated and removed at
MES	HEAVY METALS			that time.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Trans-1,2 Dichloroethene	156-60-5	Settling Tank	33	ppb
SOL	1,1,1 Trichloroethane	71-55-6	Settling Tank	29	ppb
SLU	Benzene	71-43-2	Settling Tank	trace	ppb
OCC	2-Hexanone	591-78-6	Settling Tank	33	ppb
SLU	4-Methyl-2 Pentanone	108-10-1	Settling Tank	2400	ppb
SOL	Toluene	108-88-3	Settling Tank	210	ppb
SLU	Chlorobenzene	108-90-7	Settling Tank	trace	ppb
SOL	Ethylbenzene	100-41-4	Settling Tank	3700	ppb
OCC	Total Xylenes	1330-20-7	Settling Tank	15,000	ppb
SLU	Phenol	108-95-2	Settling Tank	3.6×10^6	ppb
SLU	Benyzl Alcohol	100-51-6	Settling Tank	trace	ppb
SLU	2-Methylphenol	95-48-7	Settling Tank	4.5×10^6	ppb
SLU	4-Methylphenol	106-44-5	Settling Tank	1.9×10^5	ppb
SLU	2-4 Dimethylphenol	105-67-9	Settling Tank	3.8×10^5	ppb
OLW	Napthalene	91-20-3	Settling Tank	trace	ppb
SOL	Bis(2-Chloroethyl) Ether	171-44-4	Settling Tank	26	ppb

See Attachment A

V. FEEDSTOCKS (See Appendix forCAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS	Xylene	1330-20-7	FDS		
FDS	Cadmium	7440-43-9	FDS		
FDS	Nickel	7440-02-0	FDS		

VI. SOURCES OF INFORMATION (See specific references. e.g., state files, sample analysis, reports)

NUS Corp., FIT II, Site Inspection on 6/13/85
Niagara County Health Department File
Niagara River Toxics Monitoring Report Reichhold-Varcum Chemicals, Inc., Feb. 22-23, 1982, NYSDEC File
Hydrogeologic Investigation, Reichhold Chemicals, Inc. Niagara Falls, NY, December, 1984, NYSDEC File
Analytical Laboratory Results, California Analytical Labs and Rocky Mountain Analytical Labs

ATTACHMENT A

Category	Substance Name	CAS Number	Storage/Disposal Method	Concentration	Measure of Concentration
OLW	Di-n-Butylphthalate	87-74-2	Settling Tank	6.2×10^5	ppb
IOC	Aluminum	7429-90-5	Settling Tank	441	ppb
IOC	Antimony	7440-36-0	Settling Tank	trace	ppb
IOC	Arsenic	7440-38-2	Settling Tank	188	ppb
IOC	Barium	7440-39-3	Settling Tank	252	ppb
IOC	Cadmium	7440-43-9	Settling Tank	5.1	ppb
IOC	Copper	7440-50-8	Settling Tank	73	ppb
IOC	Iron	7439-89-6	Settling Tank	8780	ppb
IOC	Lead	7439-92-1	Settling Tank	6.5	ppb
IOC	Mercury	7439-97-6	Settling Tank	trace	ppb
IOC	Nickel	7440-02-0	Settling Tank	trace	ppb
IOC	Potassium	7440-09-7	Settling Tank	5100	ppb
IOC	Silver	7440-22-4	Settling Tank	15	ppb
IOC	Zinc	7440-66-6	Settling Tank	25,800	ppb

II. HAZARDOUS CONDITIONS AND INCIDENTS

01. X A. GROUNDWATER CONTAMINATION — 02 X OBSERVED (DATE: 12/84 & 6/13/85) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

A hydrogeologic investigation conducted at Reichhold Chemicals for the New York State Department of Environmental Conservation revealed levels of phenols, benzene, dichlorobenzene, ethyl benzene, toluene and 1,2,4 trichlorobenzene in monitoring wells on plant property. The results of samples collected during the site inspection conducted on 6/13/85 showed groundwater contaminated with phenol and phenolic compounds, solvents and arsenic. Groundwater in the area is not potable.

01. X B. SURFACE WATER CONTAMINATION — 02 X OBSERVED (DATE: 11/14/84) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION

Prior sampling done by Recra Research Inc. revealed levels of phenols found in surface water on adjacent railroad property. These findings could be attributed to runoff from Reichhold Chemicals' property. The surface water is not perennial. At the time of the site inspection, no surface water was observed in the area sampled by Recra Research Inc.

01 X C. CONTAMINATION OF AIR — 02 X OBSERVED (DATE: 6/13/85) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 85,471 04 NARRATIVE DESCRIPTION

OVA and HNu readings greater than 100 ppm were observed near settling tank effluent discharge at time of FIT site inspection. Population potentially affected is based on 4 mile radius. Actual population affected would depend on wind direction and wind speed.

01. D. FIRE/EXPLOSIVE CONDITIONS — 02 OBSERVED (DATE: _____) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists. Wastes are presently stored in settling tanks. Sovents and phenols found in surface soils are not found in concentrations that could pose a fire or explosive condition.

01. X E. DIRECT CONTACT — 02 OBSERVED (DATE: _____) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40 04 NARRATIVE DESCRIPTION

Potential exists for workers to come in contact with contaminated process effluent since it discharges from settling tanks in an open drain. Workers could also come in contact with contaminated soil on the site. Plant property is fenced in from public.

01 X F. CONTAMINATION OF SOIL — 02 X OBSERVED (DATE: 6/13/85) — X POTENTIAL — _ ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.65 (ACRES) 04 NARRATIVE DESCRIPTION

Analytical results of soil samples collected on Reichhold Chemicals property showed that the soil in the northeast section of the property, from an area south of the settling tanks to the property line, was contaminated with solvents, phenols and Di-n-Butylphthalate.

01. G. DRINKING WATER CONTAMINATION — 02 OBSERVED (DATE: _____) — _ POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

No potential exists. Groundwater is not potable in area and surface water drinking intakes are upstream from any potential discharge from the site.

01 X H. WORKER EXPOSURE/INJURY — 02 OBSERVED (DATE: _____) — X POTENTIAL — _ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 40 04 NARRATIVE DESCRIPTION

Potential for workers to be overcome by fumes near settling tank discharge point and for workers to come in contact with settling tank effluent and contaminated surface soils. Area is not fenced off to workers.

01 X I. POPULATION EXPOSURE/INJURY — 02 OBSERVED (DATE: _____) — X POTENTIAL — _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 85,471 04 NARRATIVE DESCRIPTION

Potential exists for population exposure to fumes from settling tank process effluent, since fumes could be carried off site. The population affected would depend on wind direction and wind speed.

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 X J. DAMAGE TO FLORA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

No potential exists for damage to flora in area of Reichhold-Varcum since vegetation is sparse in this industrial area. Potential for damage to flora exists from offsite migration of contaminated groundwater to discharge areas.

01 X K. DAMAGE TO FAUNA — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

Potential damage exists for fauna feeding on flora affected by groundwater contaminated with arsenic and lead from the site.

01 X L. CONTAMINATION OF FOOD CHAIN — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

There is a potential for contamination of the food chain from arsenic and lead found in groundwater at the site.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/runoff/standing liquids/leaking drums) — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 40 — 04 NARRATIVE DESCRIPTION

There is a potential for spills from open drainage culvert emanating from settling tanks. Groundwater in area is contaminated, possibly from the previous unstable containment of wastes in unlined settling pond.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 X OBSERVED (DATE: 11/14/84) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Phenol was found in surface water on adjacent railroad property. Groundwater containing contaminants may migrate to other areas downgradient from the site.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 X OBSERVED (DATE: 6/13/85) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

Solvents, phenols and metals were found in the wastewater discharge of Reichhold Chemicals. This wastewater is discharged through sewer lines to the Niagara Falls Wastewater Treatment Plant.

01 _ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

No past history of illegal or unauthorized dumping and no evidence of such observed during site inspection by NUS Corporation, FIT II.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

A previous unlined settling pond, located in the area of the present settling tanks, was used to settle phenolic resin wastes. This settling pond was removed and the soil excavated to bedrock in 1979.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 85,471

IV. COMMENTS

Reichhold-Varcum Chemical employees are the people who are most directly exposed to hazardous conditions at the site. The plant is fenced in from the public and lies in an industrial area. The migration of contaminated groundwater from the site is possible. Exposure to the public from air contamination is possible, but offsite air contamination has not been documented.

V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, sample analysis, reports)

NUS Corp., FIT II, Site Inspection on 6/13/85
Niagara County Health Department File
Niagara River Toxics Monitoring Report, Feb. 22-23, 1982, NYSDEC File